WATER SAMPLING AND REPORTING SERVICES

COLUMBIA PUBLIC SCHOOLS
MILL CREEK ELEMENTARY SCHOOL
2200 WEST NIFONG BOULEVARD
COLUMBIA, MISSOURI

Prepared for:

COLUMBIA PUBLIC SCHOOLS
COLUMBIA, MISSOURI

Prepared by:

GEOTECHNOLOGY, LLC, DBA UES
ST. LOUIS, MISSOURI

Date:

SEPTEMBER 16, 2024

Project No.:

J044517.01

SAFETY
TEAMWORK
RESPONSIVENESS
INTEGRITY
VALUE
EXCELLENCE

September 16, 2024

Mr. David Seamon
District Project Manager
Columbia Public Schools
1818 West Worley Street
Columbia, Missouri 65203

Re: Water Sampling and Reporting Services
Columbia Public Schools
Mill Creek Elementary School
2200 West Nifong Boulevard
Columbia, Missouri
Project No. J044517.01

Dear Mr. Seamon:

In accordance with Columbia Public Schools' (CPS) Request for Proposal No. C-24043, dated October 10, 2023, Geotechnology, LLC, dba UES, is pleased to provide this drinking water sampling report for the referenced project. Our scope of services included flushing and sampling of drinking water from potable water outlets, laboratory analysis of water samples, and a letter report.

SITE AND PROJECT DESCRIPTION

The subject property consists of the existing Columbia Public Schools Mill Creek Elementary School, located southwest of the intersection of Sinclair Street and West Nifong Boulevard in Columbia, Missouri. The purpose of the drinking water sampling was to identify potable water outlets that may require remediation in accordance with the State of Missouri's *Get the Lead out of School Drinking Water Act* (RSMo 160.077).

DRINKING WATER SAMPLING

RSMo 160.077 sets standards for lead concentrations in school drinking water, stating that each Missouri school shall provide drinking water with a lead concentration level below five (5) parts per billion (ppb). This Act requires schools to conduct the inventory, sampling, remediation, and monitoring at all potable drinking water outlets used or potentially used for drinking, food preparation, and cooking or cleaning utensils.

In general conformance with the RSMo 160.077 requirements, and the Environmental Protection Agency's (EPA) *3Ts for Reducing Lead in Drinking Water in Schools and Child Care Facilities* manual, initial water flushing and sampling activities were conducted on January 15 and 16, 2024, and June 25 and 26, 2024, by Mr. Brad Lohrum, a Missouri-licensed lead risk assessor. Mr. Lohrum was assisted by Mr. Bob Haefner, a Missouri-licensed lead risk assessor,

and Mr. Jon Tuetken, an environmental scientist with UES. Copies of training certificates and lead licenses for Messrs. Lohrum and Haefner are included in Appendix A.

An inventory of potable drinking water outlets was provided to UES by CPS. UES personnel sampled the identified outlets utilizing the EPA's "first-draw" methods. The identified outlets were flushed, then allowed to sit undisturbed for a period of 8-18 hours. Following this stagnation period, the first 250 milliliters (ml) of water expelled from the outlets were collected in laboratory-provided containers. Copies of the drinking water sampling forms, which include a list of sample locations, and the times and dates of flushing and sampling activities, are included in Appendix B. A floor plan depicting approximate sample locations is included as Figure 1.

Using standard chain-of-custody procedures, the drinking water samples were submitted to Teklab, Inc. of Collinsville, Illinois, an independent, certified Missouri Department of Natural Resources (MDNR) Drinking Water and National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory, for analysis of lead content via EPA Method 200.8: *Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry*.

RESULTS

Laboratory analyses detected the presence of lead at or above 5 ppb in the following samples.

TABLE 1
DRINKING WATER OUTLETS AT OR ABOVE 5 PARTS PER BILLION

Sample Number / Location and Fixture Type	Results
MCE-02 / Kitchen Dishwash – Left Sink	19.7 ppb
MCE-09 / Office K Sink	8.4 ppb
MCE-10 / Room 222T Sink	45.3 ppb
MCE-14 / Room 220 – Left Sink	8.1 ppb
MCE-16 / Room 220 – West Sink	13.5 ppb
MCE-17 / Room 217 – East Sink	31.8 ppb
MCE-18 / Room 217 – Left Sink	28.7 ppb
MCE-19 / Room 217 – Left Bubbler	7.5 ppb
MCE-20 / Room 217 – Right Sink	14.8 ppb
MCE-22 / Room 218 – Left Sink	6.4 ppb
MCE-23 / Room 218 – Center Sink	6.1 ppb
MCE-24 / Room 218 – Center Bubbler	6.0 ppb
MCE-41 / Room 280 – Left Sink	5.0 ppb
MCE-44 / Room 280 – Right Bubbler	5.1 ppb
MCE-68 / Room 127 Sink	7.4 ppb
MCE-71 / Room 121 Sink	28.1 ppb
MCE-73 / Room 120 Sink	33.7 ppb
MCE-74 / Room 120 Bubbler	8.7 ppb

UES personnel returned to the site on June 25 and 26, 2024, to collect a water sample from the sink located in Office K (MCE-09-2) for laboratory analysis following the completion of remediation activities. The result of the water sample analysis was below 5 ppb.

UES will not be able to represent that the site contains no lead-bearing water outlets beyond those detected or observed by UES during flushing and sampling activities. Copies of the drinking water analytical results are included in Appendix C.

RECOMMENDATIONS

Our recommendations are summarized below:

- It is our understanding that the remaining outlets identified in Table 1 that were not resampled have either been removed, marked as non-potable, or have otherwise been taken out of service. Should these fixtures be put back into service following remediation activities, or if replacement fixtures are to be put into service, further sampling and testing should be conducted.

* * * * * *

The following attachments are included in and complete this report:

Figure 1	-	Drinking Water Sample Locations
Appendix A	-	Certificates and Licenses of Environmental Professionals
Appendix B	-	Drinking Water Sampling Forms
Appendix C	-	Drinking Water Laboratory Data Sheets
Appendix D	-	Limitations of Report

* * * * * *

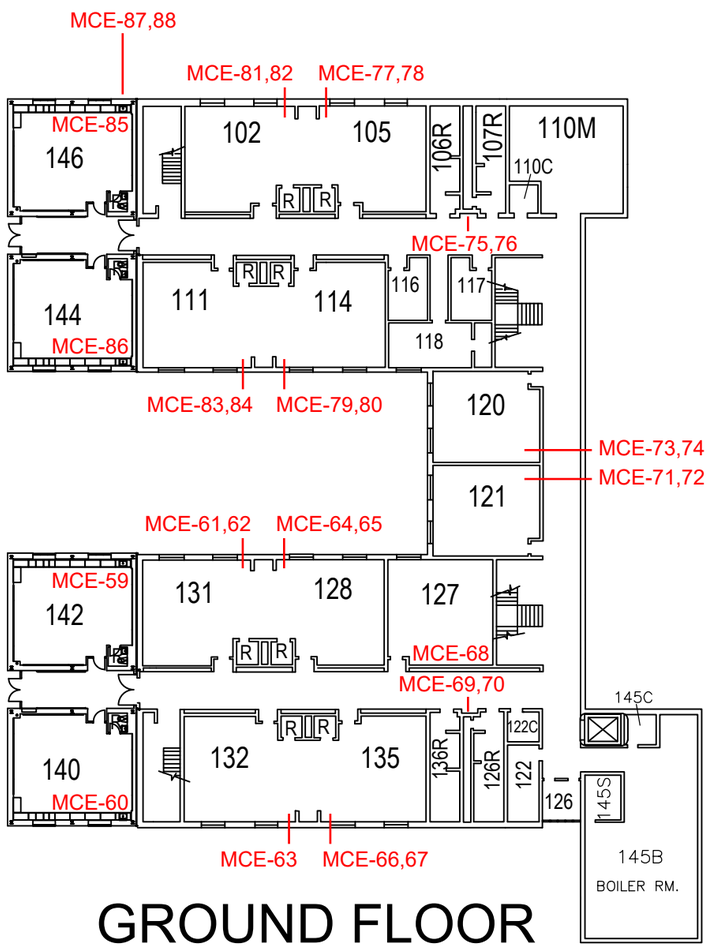
We appreciate the opportunity to provide our professional environmental consulting services to Columbia Public Schools on this project. If you have any questions or comments, please contact me at (314) 997-7440.

Very truly yours,

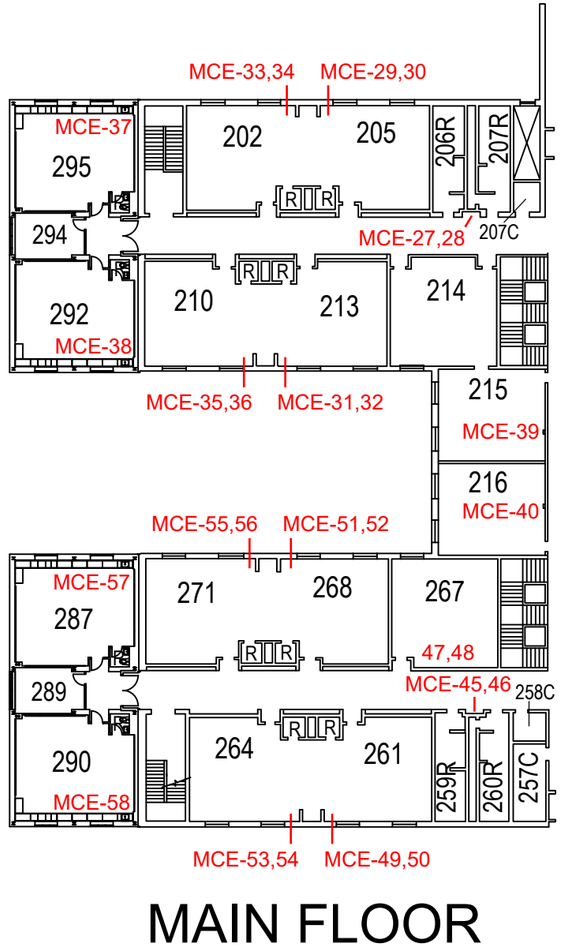
UES

Bradley J. Lohrum
Project Manager

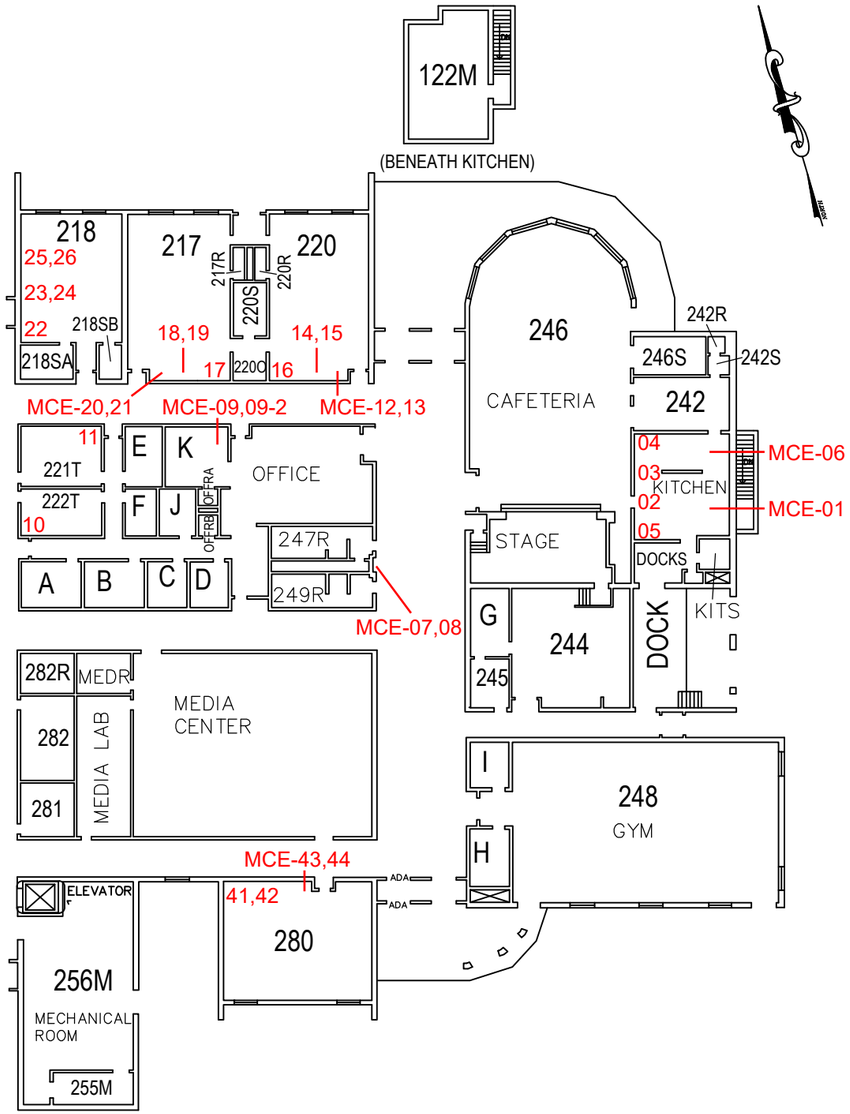
BJL/MSR:bjl/jsj



GROUND FLOOR



MAIN FLOOR



NOTES

1. Drawing not to scale.
2. Drawing adapted from “Mill Creek Elementary Floor Plan”, provided by the client, dated 08/20/2013.
3. Sample locations were identified in the field relative to building features and are approximate only.

Drawn By: BJL	Ck'd By: BJL	App'vd By: MSR
Date: 9-16-24	Date: 9-16-24	Date: 9-16-24

UES

2200 West Nifong Boulevard
Columbia, Missouri

DRINKING WATER SAMPLE LOCATIONS

Project Number J044517.01	FIGURE 1

APPENDIX A

CERTIFICATES AND LICENSES OF ENVIRONMENTAL PROFESSIONALS

COLLEGE FOR

PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Bradley Lohrum

817 S Sappington Road, Crestwood, MO 63126

has attended 8 contact hours of training and successfully passed an examination

Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 - 12/12/2022 - **189152**
Examination Date: 12/12/2022
CEUs: 0.8

Christopher C. King PhD
Director, Center for Environmental Education and Training

Certificate expiration is 3 years from examination date for Illinois Dept. of Public Health

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104
(314) 977-8256 slu.edu/x39753.xml

This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Bradley J. Lohrum

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date:	**1/20/2023**
Expiration Date:	**1/20/2025**
License Number:	**230120-300006460**

Paula F. Nickelson
Acting Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

Robert Haefner

3951 Dover Pl, St. Louis, MO 63116

has attended 8 contact hours of training and successfully passed examination for

Lead Risk Assessor Refresher

St. Louis, MO

Certificate # CEET 325 3/6/2023 118035
Examination Date: 3/6/2023
CEUs: 0.8

Rene Dulle

Rene Dulle, MBA, Director
Center for Environmental Education & Training

Center for Environmental Education and Training | 3545 Lafayette Ave., St. Louis, MO 63104
(314) 977-8256 | slu.edu/public-health-social-justice/centers-institutes/ceet.php

The training course has been accredited by the Missouri Dept. of Health and Senior Services, and by the Illinois Dept. of Public Health. Certificate expiration is 3 years from examination date for Illinois Dept. of Public Health.

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Robert J. Haefner

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date:	**3/28/2023**
Expiration Date:	**3/30/2025**
License Number:	**150330-300004672**

Paula F. Nickelson
Acting Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

Lead Abatement Contractor License

The person, firm or corporation whose name appears on this certificate is licensed as a Lead Abatement Contractor as set forth in the Missouri Revised Statutes 701.300-701.338 and 19 CSR 30-70.180, as long as not suspended or revoked, and is hereby authorized to engage in lead-bearing substance activities.

Issued to:

Geotechnology, LLC

11816 Lackland Road, Suite 150
St. Louis, MO 63146

Issuance Date:	**2/8/2022**
Expiration Date:	**2/8/2024**
License Number:	**060208-0095**

Donald G. Kauerauf
Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

Lead Abatement Contractor License

The person, firm or corporation whose name appears on this certificate is licensed as a Lead Abatement Contractor as set forth in the Missouri Revised Statutes 701.300-701.338 and 19 CSR 30-70.180, as long as not suspended or revoked, and is hereby authorized to engage in lead-bearing substance activities.

Issued to:

Geotechnology LLC (UES)

11816 Lackland Rd Suite 150
St. Louis, MO 63146

Issuance Date:	**2/28/2024**
Expiration Date:	**2/28/2026**
License Number:	**240229-4652**

Paula F. Nickelson
Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

APPENDIX B

DRINKING WATER SAMPLING FORMS

DRINKING WATER SAMPLING FORM

Project Name: Columbia Public Schools Water Sampling and Reporting Services

Project Number: J044517.01

Address: 2200 West Nifong Boulevard Columbia, Missouri

Building Name: Mill Creek Elementary

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
MCE-01	S	Kitchen Food Prep	BJL - 1/15/24 - 17:57	JFT - 1/16/24 - 2:49
MCE-02	S	Kitchen Dishwash - Left	JFT - 1/15/24 - 17:57	RJH - 1/16/24 - 2:49
MCE-03	S	Kitchen Dishwash - Center	JFT - 1/15/24 - 17:57	RJH - 1/16/24 - 2:49
MCE-04	S	Kitchen Dishwash - Right	JFT - 1/15/24 - 17:57	RJH - 1/16/24 - 2:49
MCE-05	S	Kitchen Rinse Station	JFT - 1/15/24 - 17:57	RJH - 1/16/24 - 2:49
MCE-06	ICE	Kitchen	RJH - 1/15/24 - 17:57	JFT - 1/16/24 - 2:50
MCE-07	WF	Hallway at Rms. 247/249 - Left	RJH - 1/15/24 - 17:59	RJH - 1/16/24 - 2:52
MCE-08	WF	Hallway at Rms. 247/249 - Right	JFT - 1/15/24 - 17:59	JFT - 1/16/24 - 2:52
MCE-09	S	Office K	RJH - 1/15/24 - 18:00	RJH - 1/16/24 - 2:53
MCE-10	S	Room 222T	JFT - 1/15/24 - 18:02	RJH - 1/16/24 - 2:54
MCE-11	S	Room 221T	RJH - 1/15/24 - 18:02	JFT - 1/16/24 - 2:54
MCE-12	S	Room 220 - Left	RJH - 1/15/24 - 18:04	RJH - 1/16/24 - 2:57
MCE-13	B	Room 220 - Left	RJH - 1/15/24 - 18:04	RJH - 1/16/24 - 2:57
MCE-14	S	Room 220 - Right	JFT - 1/15/24 - 18:04	JFT - 1/16/24 - 2:57
MCE-15	B	Room 220 - Right	JFT - 1/15/24 - 18:04	JFT - 1/16/24 - 2:57
MCE-16	S	Room 220 - West	JFT - 1/15/24 - 18:04	RJH - 1/16/24 - 2:57
MCE-17	S	Room 217 - East	RJH - 1/15/24 - 18:06	RJH 1/16/24 - 2:59
MCE-18	S	Room 217 - Left	RJH - 1/15/24 - 18:06	RJH - 1/16/24 - 2:59
MCE-19	B	Room 217 - Left	RJH - 1/15/24 - 18:06	RJH - 1/16/24 - 2:59
MCE-20	S	Room 217 - Right	JFT - 1/15/24 - 18:06	JFT - 1/16/24 - 2:59
MCE-21	B	Room 217 - Right	JFT - 1/15/24 - 18:06	JFT - 1/16/24 - 2:59
MCE-22	S	Room 218 - Left	RJH - 1/15/24 - 18:08	JFT - 1/16/24 - 3:01
MCE-23	S	Room 218 - Center	RJH - 1/15/24 - 18:08	JFT - 1/16/24 - 3:01
MCE-24	B	Room 218 - Center	RJH - 1/15/24 - 18:08	JFT - 1/16/24 - 3:01
MCE-25	S	Room 218 - Right	JFT - 1/15/24 - 18:08	RJH - 1/16/24 - 3:01

BF=Bottle Filling
B=Bubbler
FW=Filtered Water
ICE=Ice Machine
S=Classroom/Other Sink
WF=Water Fountain

Project Name: Columbia Public Schools Water Sampling and Reporting Services

Project Number: J044517.01

Address: 2200 West Nifong Boulevard Columbia, Missouri

Building Name: Mill Creek Elementary

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
MCE-26	B	Room 218 - Right	JFT - 1/15/24 - 18:09	RJH - 1/16/24 - 3:01
MCE-27	WF	Hallway at Room 214 - Left	JFT - 1/15/24 - 18:10	RJH - 1/16/24 - 3:03
MCE-28	WF	Hallway at Room 214 - Right	RJH - 1/15/24 - 18:10	JFT - 1/16/24 - 3:03
MCE-29	S	Room 205	RJH - 1/15/24 - 18:12	RJH - 1/16/24 - 3:04
MCE-30	B	Room 205	RJH - 1/15/24 - 18:12	RJH - 1/16/24 - 3:04
MCE-31	S	Room 213	JFT - 1/15/24 - 18:13	JFT - 1/16/24 - 3:05
MCE-32	B	Room 213	JFT - 1/15/24 - 18:13	JFT - 1/16/24 - 3:05
MCE-33	S	Room 202	RJH - 1/15/24 - 18:14	RJH - 1/16/24 - 3:05
MCE-34	B	Room 202	RJH - 1/15/24 - 18:14	RJH - 1/16/24 - 3:05
MCE-35	S	Room 210	JFT - 1/15/24 - 18:14	JFT - 1/16/24 - 3:06
MCE-36	B	Room 210	JFT - 1/15/24 - 18:14	JFT - 1/16/24 - 3:06
MCE-37	S	Room 295	RJH - 1/15/24 - 18:15	RJH - 1/16/24 - 3:07
MCE-38	S	Room 292	RJH - 1/15/24 - 18:16	RJH - 1/16/24 - 3:08
MCE-39	S	Room 215	JFT - 1/15/24 - 18:17	RJH - 1/16/24 - 3:09
MCE-40	S	Room 216	RJH - 1/15/24 - 18:19	JFT - 1/16/24 - 3:10
MCE-41	S	Room 280 - Left	RJH - 1/15/24 - 18:21	JFT - 1/16/24 - 3:12
MCE-42	B	Room 280 - Left	RJH - 1/15/24 - 18:21	JFT - 1/16/24 - 3:12
MCE-43	S	Room 280 - Right	JFT - 1/15/24 - 18:21	RJH - 1/16/24 - 3:12
MCE-44	B	Room 280 - Right	JFT - 1/15/24 - 18:21	RJH - 1/16/24 - 3:12
MCE-45	WF	Hallway at Rms. 259/260 - Left	JFT - 1/15/24 - 18:29	JFT - 1/16/24 - 3:13
MCE-46	WF	Hallway at Rms. 259/260 - Right	JFT - 1/15/24 - 18:29	JFT - 1/16/24 - 3:13
MCE-47	S	Room 267	RJH - 1/15/24 - 18:31	RJH - 1/16/24 - 3:14
MCE-48	B	Room 267	RJH - 1/15/24 - 18:31	RJH - 1/16/24 - 3:14
MCE-49	S	Room 261	JFT - 1/15/24 - 18:32	JFT - 1/16/24 - 3:15
MCE-50	B	Room 261	JFT - 1/15/24 - 18:32	JFT - 1/16/24 - 3:15

BF=Bottle Filling
B=Bubbler
FW=Filtered Water
ICE=Ice Machine
S=Classroom/Other Sink
WF=Water Fountain

Project Name: Columbia Public Schools Water Sampling and Reporting Services

Building Name: Mill Creek Elementary

Project Number: J044517.01

Address: 2200 West Nifong Boulevard Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
MCE-51	S	Room 268	RJH - 1/15/24 - 18:34	RJH - 1/16/24 - 3:16
MCE-52	B	Room 268	RJH - 1/15/24 - 18:34	RJH - 1/16/24 - 3:16
MCE-53	S	Room 264	JFT - 1/15/24 - 18:34	JFT - 1/16/24 -3:16
MCE-54	B	Room 264	JFT - 1/15/24 - 18:34	JFT - 1/16/24 -3:16
MCE-55	S	Room 271	RJH - 1/15/24 - 18:35	RJH - 1/16/24 - 3:17
MCE-56	B	Room 271	RJH - 1/15/24 - 18:35	RJH - 1/16/24 - 3:17
MCE-57	S	Room 287	RJH - 1/15/24 - 18:36	JFT - 1/16/24 - 3:18
MCE-58	S	Room 290	JFT - 1/15/24 - 18:36	RJH - 1/16/24 - 3:18
MCE-59	S	Room 142	RJH - 1/15/24 - 18:37	RJH - 1/16/24 - 3:21
MCE-60	S	Room 140	JFT - 1/15/24 - 18:37	JFT - 1/16/24 - 3:22
MCE-61	S	Room 131	RJH - 1/15/24 - 18:40	RJH - 1/16/24 - 3:22
MCE-62	B	Room 131	RJH - 1/15/24 - 18:40	RJH - 1/16/24 - 3:22
MCE-63	S	Room 132	JFT - 1/15/24 - 18:40	JFT - 1/16/24 - 3:23
MCE-64	S	Room 128	RJH - 1/15/24 - 18:41	RJH - 1/16/24 - 3:24
MCE-65	B	Room 128	RJH - 1/15/24 - 18:41	RJH - 1/16/24 - 3:24
MCE-66	S	Room 135	RJH - 1/15/24 - 18:42	JFT - 1/16/24 - 3:24
MCE-67	B	Room 135	RJH - 1/15/24 - 18:42	JFT - 1/16/24 - 3:24
MCE-68	S	Room 127	JFT - 1/15/24 - 18:43	RJH - 1/16/24 - 3:25
MCE-69	WF	Hallway at Rms. 126/136 - Left	RJH - 1/15/24 - 18:44	RJH - 1/16/24 - 3:26
MCE-70	WF	Hallway at Rms. 126/136 - Right	RJH - 1/15/24 - 18:44	JFT - 1/16/24 - 3:26
MCE-71	S	Room 121	RJH - 1/15/24 - 18:45	RJH - 1/16/24 - 3:27
MCE-72	B	Room 121	RJH - 1/15/24 - 18:45	RJH - 1/16/24 - 3:27
MCE-73	S	Room 120	JFT - 1/15/24 - 18:47	JFT - 1/16/24 - 3:28
MCE-74	B	Room 120	JFT - 1/15/24 - 18:47	JFT - 1/16/24 - 3:28
MCE-75	WF	Hallway at Room 117 - Left	RJH - 1/15/24 - 18:48	RJH - 1/16/24 - 3:29

BF=Bottle Filling
B=Bubbler
FW=Filtered Water
ICE=Ice Machine
S=Classroom/Other Sink
WF=Water Fountain

DRINKING WATER SAMPLING FORM

Project Name: Columbia Public Schools Water Sampling and Reporting Services
Building Name: Mill Creek Elementary

Project Number: J044517.01
Address: 2200 West Nifong Boulevard
Columbia, Missouri

Sample ID	Fixture Type	Location	Flushed By - Date - Time	Sampled By - Date - Time
MCE-76	WF	Hallway at Room 117 - Right	RJH - 1/15/24 - 18:48	RJH - 1/16/24 - 3:29
MCE-77	S	Room 105	RJH - 1/15/24 - 18:50	RJH - 1/16/24 - 3:30
MCE-78	B	Room 105	RJH - 1/15/24 - 18:50	RJH - 1/16/24 - 3:30
MCE-79	S	Room 114	JFT - 1/15/24 - 18:51	JFT - 1/16/24 - 3:30
MCE-80	B	Room 114	JFT - 1/15/24 - 18:51	JFT - 1/16/24 - 3:30
MCE-81	S	Room 102	RJH - 1/15/24 - 18:52	RJH - 1/16/24 - 3:31
MCE-82	B	Room 102	RJH - 1/15/24 - 18:52	RJH - 1/16/24 - 3:31
MCE-83	S	Room 111	JFT - 1/15/24 - 18:52	JFT - 1/16/24 - 3:32
MCE-84	B	Room 111	JFT - 1/15/24 - 18:52	JFT - 1/16/24 - 3:32
MCE-85	S	Room 146	RJH - 1/15/24 - 18:53	RJH - 1/16/24 - 3:33
MCE-86	S	Room 144	JFT - 1/15/24 - 18:53	BJL - 1/16/24 - 3:33
MCE-09-2	S	Office K	BJL - 6/25/24 - 20:51	BJL - 6/26/24 - 4:51
MCE-87	WF	Exterior - Left	BJL - 6/25/24 - 20:54	BJL - 6/26/24 - 4:54
MCE-88	WF	Exterior - Right	BJL - 6/25/24 - 20:54	BJL - 6/26/24 - 4:54

BF=Bottle Filling
B=Bubbler
FW=Filtered Water
ICE=Ice Machine
S=Classroom/Other Sink
WF=Water Fountain

APPENDIX C

DRINKING WATER LABORATORY DATA SHEETS

February 14, 2024

Brad Lohrum
Geotechnology, Inc.
11816 Lackland Road
St. Louis, MO 63146
TEL: (314) 997-7440
FAX: (314) 997-2067

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: J044517.01 **WorkOrder:** 24011318

Dear Brad Lohrum:

TEKLAB, INC received 60 samples on 1/19/2024 10:00:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.
Work Order: 24011318
Client Project: J044517.01
Report Date: 14-Feb-24

This reporting package includes the following:

Client: Geotechnology, Inc. **Work Order:** 24011318

Client Project: J044517.01 **Report Date:** 14-Feb-24

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: Geotechnology, Inc.
Work Order: 24011318

Client Project: J044517.01
Report Date: 14-Feb-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: Geotechnology, Inc.
Client Project: J044517.01

Work Order: 24011318
Report Date: 14-Feb-24

Cooler Receipt Temp: N/A °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Geotechnology, Inc. **Work Order:** 24011318

Client Project: J044517.01 **Report Date:** 14-Feb-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: Geotechnology, Inc. **Work Order:** 24011318

Client Project: J044517.01 **Report Date:** 14-Feb-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24011318-001A	RBE-42	NELAP		1.0	1.1	µg/L	1	02/05/2024 16:43	01/16/2024 2:25
24011318-002A	RBE-43	NELAP		1.0	< 1.0	µg/L	5	02/12/2024 15:52	01/16/2024 1:55
24011318-003A	MCE-01	NELAP		1.0	< 1.0	µg/L	1	02/05/2024 16:47	01/16/2024 2:49
24011318-004A	MCE-02	NELAP		1.0	19.7	µg/L	1	02/05/2024 16:50	01/16/2024 2:49
24011318-005A	MCE-03	NELAP		1.0	1.7	µg/L	1	02/05/2024 16:54	01/16/2024 2:49
24011318-006A	MCE-04	NELAP		1.0	2.4	µg/L	1	02/05/2024 16:58	01/16/2024 2:49
24011318-007A	MCE-05	NELAP		1.0	< 1.0	µg/L	1	02/05/2024 17:09	01/16/2024 2:49
24011318-008A	MCE-06	NELAP		1.0	< 1.0	µg/L	1	02/05/2024 17:12	01/16/2024 2:50
24011318-009A	MCE-07	NELAP		1.0	< 1.0	µg/L	1	02/07/2024 22:01	01/16/2024 2:52
24011318-010A	MCE-08	NELAP		1.0	< 1.0	µg/L	1	02/07/2024 22:04	01/16/2024 2:52
24011318-011A	MCE-09	NELAP		1.0	8.4	µg/L	1	02/07/2024 22:08	01/16/2024 2:53
24011318-012A	MCE-10	NELAP		1.0	45.3	µg/L	1	02/07/2024 22:12	01/16/2024 2:54
24011318-013A	MCE-11	NELAP		1.0	1.3	µg/L	5	02/12/2024 16:22	01/16/2024 2:54
24011318-014A	MCE-12	NELAP		1.0	4.3	µg/L	1	02/07/2024 22:23	01/16/2024 2:57
24011318-015A	MCE-13	NELAP		1.0	1.6	µg/L	5	02/12/2024 15:56	01/16/2024 2:57
24011318-016A	MCE-14	NELAP		1.0	8.1	µg/L	1	02/07/2024 22:26	01/16/2024 2:57
24011318-017A	MCE-15	NELAP		1.0	3.4	µg/L	1	02/02/2024 14:51	01/16/2024 2:57
24011318-018A	MCE-16	NELAP		1.0	13.5	µg/L	1	02/02/2024 14:55	01/16/2024 2:57
24011318-019A	MCE-17	NELAP		1.0	31.8	µg/L	1	02/02/2024 14:59	01/16/2024 2:59
24011318-020A	MCE-18	NELAP		1.0	28.7	µg/L	1	02/02/2024 15:03	01/16/2024 2:59
24011318-021A	MCE-19	NELAP		1.0	7.5	µg/L	1	02/02/2024 16:05	01/16/2024 2:59
24011318-022A	MCE-20	NELAP		1.0	14.8	µg/L	1	02/02/2024 15:07	01/16/2024 2:59
24011318-023A	MCE-21	NELAP		1.0	1.2	µg/L	1	02/02/2024 15:36	01/16/2024 2:59
24011318-024A	MCE-22	NELAP		1.0	6.4	µg/L	1	02/02/2024 15:40	01/16/2024 3:01
24011318-025A	MCE-23	NELAP		1.0	6.1	µg/L	1	02/02/2024 15:45	01/16/2024 3:01
24011318-026A	MCE-24	NELAP		1.0	6.0	µg/L	1	02/02/2024 15:49	01/16/2024 3:01
24011318-027A	MCE-25	NELAP		1.0	4.8	µg/L	1	02/02/2024 15:53	01/16/2024 3:01
24011318-028A	MCE-26	NELAP		1.0	3.6	µg/L	5	02/12/2024 16:01	01/16/2024 3:01
24011318-029A	MCE-27	NELAP		1.0	1.7	µg/L	1	02/02/2024 15:57	01/16/2024 3:03
24011318-030A	MCE-28	NELAP		1.0	1.6	µg/L	1	02/02/2024 16:01	01/16/2024 3:03
24011318-031A	MCE-29	NELAP		1.0	2.1	µg/L	1	02/02/2024 16:30	01/16/2024 3:04
24011318-032A	MCE-30	NELAP		1.0	1.4	µg/L	1	02/02/2024 16:59	01/16/2024 3:04
24011318-033A	MCE-31	NELAP		1.0	2.1	µg/L	1	02/02/2024 16:34	01/16/2024 3:05
24011318-034A	MCE-32	NELAP		1.0	2.0	µg/L	1	02/02/2024 16:38	01/16/2024 3:05
24011318-035A	MCE-33	NELAP		1.0	2.0	µg/L	1	02/02/2024 16:42	01/16/2024 3:05
24011318-036A	MCE-34	NELAP		1.0	2.1	µg/L	1	02/02/2024 16:46	01/16/2024 3:05
24011318-037A	MCE-35	NELAP		1.0	3.0	µg/L	1	02/03/2024 10:04	01/16/2024 3:06
24011318-038A	MCE-36	NELAP		1.0	1.1	µg/L	1	02/03/2024 10:08	01/16/2024 3:06
24011318-039A	MCE-37	NELAP		1.0	1.1	µg/L	1	02/03/2024 10:12	01/16/2024 3:07
24011318-040A	MCE-38	NELAP		1.0	< 1.0	µg/L	1	02/03/2024 10:41	01/16/2024 3:08
24011318-041A	MCE-39	NELAP		1.0	3.7	µg/L	1	02/03/2024 10:45	01/16/2024 3:09
24011318-042A	MCE-40	NELAP		1.0	3.0	µg/L	1	02/03/2024 10:49	01/16/2024 3:10
24011318-043A	MCE-41	NELAP		1.0	5.0	µg/L	1	02/03/2024 10:53	01/16/2024 3:12
24011318-044A	MCE-42	NELAP		1.0	2.5	µg/L	1	02/03/2024 11:09	01/16/2024 3:12
24011318-045A	MCE-43	NELAP		1.0	2.9	µg/L	1	02/03/2024 10:57	01/16/2024 3:12
24011318-046A	MCE-44	NELAP		1.0	5.1	µg/L	1	02/03/2024 11:01	01/16/2024 3:12
24011318-047A	MCE-45	NELAP		1.0	1.1	µg/L	1	02/03/2024 11:05	01/16/2024 3:13
24011318-048A	MCE-46	NELAP		1.0	< 1.0	µg/L	1	02/03/2024 11:34	01/16/2024 3:13

Client: Geotechnology, Inc. **Work Order:** 24011318

Client Project: J044517.01 **Report Date:** 14-Feb-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24011318-049A	MCE-47	NELAP		1.0	**3.7**	µg/L	1	02/03/2024 11:38	01/16/2024 3:14
24011318-050A	MCE-48	NELAP		1.0	**1.6**	µg/L	1	02/03/2024 12:03	01/16/2024 3:14
24011318-051A	MCE-49	NELAP		1.0	**2.4**	µg/L	1	02/03/2024 11:42	01/16/2024 3:15
24011318-052A	MCE-50	NELAP		1.0	**2.0**	µg/L	1	02/03/2024 11:47	01/16/2024 3:15
24011318-053A	MCE-51	NELAP		1.0	**2.5**	µg/L	1	02/03/2024 11:51	01/16/2024 3:16
24011318-054A	MCE-52	NELAP		1.0	**1.1**	µg/L	5	02/09/2024 9:57	01/16/2024 3:16
24011318-055A	MCE-53	NELAP		1.0	**3.1**	µg/L	1	02/03/2024 11:55	01/16/2024 3:16
24011318-056A	MCE-54	NELAP		1.0	**1.3**	µg/L	1	02/03/2024 11:59	01/16/2024 3:16
24011318-057A	MCE-55	NELAP		1.0	**2.6**	µg/L	1	02/03/2024 12:28	01/16/2024 3:17
24011318-058A	MCE-56	NELAP		1.0	**1.7**	µg/L	1	02/03/2024 12:32	01/16/2024 3:17
24011318-059A	MCE-57	NELAP		1.0	**< 1.0**	µg/L	1	02/03/2024 12:36	01/16/2024 3:18
24011318-060A	MCE-58	NELAP		1.0	**1.2**	µg/L	1	02/03/2024 12:40	01/16/2024 3:18

Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.
Client Project: J044517.01

Work Order: 24011318
Report Date: 14-Feb-24

Carrier: Employee

Received By: LM

Completed by: Amber Dilallo
On: 19-Jan-24

Reviewed by: Ellie Hopkins
On: 19-Jan-24

Pages to follow: Chain of custody 6 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	N/A
Type of thermal preservation?	None ☑	Ice ☐	Blue Ice ☐	Dry Ice	☐
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑		
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐			

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 1/19/2024 11:41:14 AM

CHAIN OF CUSTODY

 Work order # 24011318

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, LLC		
Address:	11816 Lackland Road		
City / State / Zip	St. Louis, MO 63146		
Contact:	Brad Lohrum	**Phone:**	(314) 997-7440
E-Mail:	blohrum@teamues.com	**Fax:**	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE NA °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes

Client Comments:

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
J044517.01	Brad Lohrum

Results Requested
☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: DW - Lead E200.8
24011318-001	RBE-42	1/16/24 2:25	1									X					X
002	RBE-43	1:55	1									X					X
003	MCE-01	2:49	1									X					X
004	MCE-02	"	1									X					X
005	03	"	1									X					X
006	04	"	1									X					X
007	05	—	1									X					X
008	06	2:50	1									X					X
009	07	2:52	1									X					X
010	08	"	1									X					X

Relinquished By	Date/Time	Received By	Date/Time
Brad Lohrum	1/18/24		1/18/24
	1/19/24 10:00		1/19/24 1000

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

CHAIN OF CUSTODY

 Work order # 2401131F

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, LLC		
Address:	11816 Lackland Road		
City / State / Zip	St. Louis, MO 63146		
Contact:	Brad Lohrum	**Phone:**	(314) 997-7440
E-Mail:	blohrum@teamues.com	**Fax:**	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes

Client Comments:

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
J044517.01	Brad Lohrum

Results Requested
☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: DW - Lead E200.8
2401131F 01	MCE-09	1/16/24 2:53	1									X					X
02	MCE-10	2:54	1									X					X
03	11	"	1									X					X
04	12	2:57	1									X					X
05	13	"	1									X					X
06	14	"	1									X					X
07	15	"	1									X					X
08	16	"	1									X					X
09	17	2:59	1									X					X
10	" 18	" "	1									X					X

Relinquished By	Date/Time	Received By	Date/Time
	1/18/24		1/18/24
	1/19/24 10:00		1/19/24 1000

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

CHAIN OF CUSTODY

pg. 68 of 74 Work order # 24011318

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, LLC		
Address:	11816 Lackland Road		
City / State / Zip	St. Louis, MO 63146		
Contact:	Brad Lohrum	**Phone:**	(314) 997-7440
E-Mail:	blohrum@teamues.com	**Fax:**	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes

Client Comments:

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
J044517.01	Brad Lohrum

Results Requested
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: DW - Lead E200.8
24011318-01	MCE-19	1/16/24 2:59	1									X					X
02	MCE-20	" "	1									X					X
03	21	" "	1									X					X
04	22	" 3:01	1									X					X
05	23	" "	1									X					X
06	24	" "	1									X					X
07	25	" "	1									X					X
08	26	" "	1									X					X
09	27	" 3:03	1									X					X
10	28	" "	1									X					X

Relinquished By	Date/Time	Received By	Date/Time
Brad Lohrum	1/18/24		1/18/24
	1/19/24 10:00		1/19/24 1000

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

CHAIN OF CUSTODY

 Work order # 2401131F

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, LLC
Address:	11816 Lackland Road
City / State / Zip	St. Louis, MO 63146
Contact:	Brad Lohrum **Phone:** (314) 997-7440
E-Mail:	blohrum@teamues.com **Fax:**

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD **FOR LAB USE ONLY**

Lab Notes

Client Comments:

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number: J044517.01

Sample Collector's Name: Brad Lohrum

Results Requested: ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions:

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: DW - Lead E200.8
2401131F-031	MCE - 29	1/16/24 3:04	1									X					X
032	MCE - 30	"	1									X					X
033	31	3:05	1									X					X
034	32	"	1									X					X
035	33	"	1									X					X
036	34	"	1									X					X
037	35	3:06	1									X					X
038	36	"	1									X					X
039	37	3:07	1									X					X
040	38	3:08	1									X					X

Relinquished By	Date/Time	Received By	Date/Time
	1/18/24		1/18/24
	1/19/24 10:00		1/19/24 1000

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

CHAIN OF CUSTODY

pg. 70 of 74 Work order # 2401318

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, LLC
Address:	11816 Lackland Road
City / State / Zip	St. Louis, MO 63146
Contact:	Brad Lohrum
Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com
Fax:	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes

Client Comments:

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
J044517.01	Brad Lohrum

Results Requested
☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: DW - Lead E200.8
2401318-041	MCE- 39	1/16/24 3:09	1									X					X
042	MCE- 40	3:10	1									X					X
043	41	3:12	1									X					X
044	42		1									X					X
045	43		1									X					X
046	44		1									X					X
047	45	3:13	1									X					X
048	46	"	1									X					X
049	47	3:14	1									X					X
050	48	"	1									X					X

Relinquished By	Date/Time	Received By	Date/Time
[signature]	1/18/24	[signature]	1/18/24
[signature]	1/19/24 10:00	[signature]	1/19/24 1000

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BottleOrder: 80481

CHAIN OF CUSTODY

pg. 71 of 74 Work order # 2401318

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, LLC
Address:	11816 Lackland Road
City / State / Zip	St. Louis, MO 63146
Contact:	Brad Lohrum
Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com
Fax:	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes

Client Comments:

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Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
J044517.01	Brad Lohrum

Results Requested
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: DW - Lead E200.8
2401318-051	MCE - 49	1/16/24 3:15	1									X					X
052	MCE - 50	" "	1									X					X
053	51	3:16	1									X					X
054	52		1									X					X
055	53		1									X					X
056	54		1									X					X
057	55	3:17	1									X					X
058	56	"	1									X					X
059	57	3:18	1									X					X
060	58	" "	1									X					X

Relinquished By	Date/Time	Received By	Date/Time
	1/18/24		1/18/24
	1/19/24 10:00		1/19/24 1000

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BottleOrder: 80481

February 12, 2024

Brad Lohrum
Geotechnology, Inc.
11816 Lackland Road
St. Louis, MO 63146
TEL: (314) 997-7440
FAX: (314) 997-2067

Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: J044517.01 **WorkOrder:** 24011323

Dear Brad Lohrum:

TEKLAB, INC received 28 samples on 1/19/2024 10:00:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Patrick Riley

Patrick Riley
Project Manager
(618)344-1004 ex 44
patrickriley@teklabinc.com

Report Contents

http://www.teklabinc.com/

Client: Geotechnology, Inc.
Work Order: 24011323
Client Project: J044517.01
Report Date: 12-Feb-24

This reporting package includes the following:

Client: Geotechnology, Inc. **Work Order:** 24011323

Client Project: J044517.01 **Report Date:** 12-Feb-24

Abbr Definition

*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: Geotechnology, Inc.
Work Order: 24011323

Client Project: J044517.01
Report Date: 12-Feb-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: Geotechnology, Inc.
Client Project: J044517.01

Work Order: 24011323
Report Date: 12-Feb-24

Cooler Receipt Temp: NA °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Geotechnology, Inc. **Work Order:** 24011323

Client Project: J044517.01 **Report Date:** 12-Feb-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: Geotechnology, Inc. **Work Order:** 24011323

Client Project: J044517.01 **Report Date:** 12-Feb-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24011323-001A	MCE-59	NELAP		1.0	**< 1.0**	µg/L	1	02/03/2024 12:57	01/16/2024 3:21
24011323-002A	MCE-60	NELAP		1.0	**1.3**	µg/L	1	02/03/2024 12:44	01/16/2024 3:22
24011323-003A	MCE-61	NELAP		1.0	**3.9**	µg/L	1	02/03/2024 12:48	01/16/2024 3:22
24011323-004A	MCE-62	NELAP		1.0	**1.6**	µg/L	1	02/03/2024 12:52	01/16/2024 3:22
24011323-005A	MCE-63	NELAP		1.0	**3.3**	µg/L	1	02/03/2024 13:30	01/16/2024 3:23
24011323-006A	MCE-64	NELAP		1.0	**2.8**	µg/L	1	02/03/2024 13:34	01/16/2024 3:24
24011323-007A	MCE-65	NELAP		1.0	**1.2**	µg/L	1	02/03/2024 13:38	01/16/2024 3:24
24011323-008A	MCE-66	NELAP		1.0	**4.1**	µg/L	1	02/03/2024 13:42	01/16/2024 3:25
24011323-009A	MCE-67	NELAP		1.0	**2.4**	µg/L	1	02/03/2024 13:46	01/16/2024 3:26
24011323-010A	MCE-68	NELAP		1.0	**7.4**	µg/L	1	02/03/2024 13:50	01/16/2024 3:26
24011323-011A	MCE-69	NELAP		1.0	**1.4**	µg/L	1	02/03/2024 13:58	01/16/2024 3:26
24011323-012A	MCE-70	NELAP		1.0	**< 1.0**	µg/L	1	02/03/2024 13:54	01/16/2024 3:26
24011323-013A	MCE-71	NELAP		1.0	**28.1**	µg/L	1	02/03/2024 14:23	01/16/2024 3:27
24011323-014A	MCE-72	NELAP		1.0	**3.0**	µg/L	1	02/03/2024 14:27	01/16/2024 3:27
24011323-015A	MCE-73	NELAP		1.0	**33.7**	µg/L	1	02/03/2024 14:32	01/16/2024 3:28
24011323-016A	MCE-74	NELAP		1.0	**8.7**	µg/L	1	02/03/2024 14:36	01/16/2024 3:28
24011323-017A	MCE-75	NELAP		1.0	**3.2**	µg/L	5	02/08/2024 13:41	01/16/2024 3:29
24011323-018A	MCE-76	NELAP		1.0	**2.3**	µg/L	5	02/08/2024 12:24	01/16/2024 3:29
24011323-019A	MCE-77	NELAP		1.0	**< 1.0**	µg/L	1	02/02/2024 21:04	01/16/2024 3:30
24011323-020A	MCE-78	NELAP		1.0	**1.4**	µg/L	1	02/02/2024 21:08	01/16/2024 3:30
24011323-021A	MCE-79	NELAP		1.0	**3.4**	µg/L	1	02/02/2024 21:11	01/16/2024 3:30
24011323-022A	MCE-80	NELAP		1.0	**1.5**	µg/L	1	02/02/2024 21:15	01/16/2024 3:30
24011323-023A	MCE-81	NELAP		1.0	**3.2**	µg/L	1	02/02/2024 21:19	01/16/2024 3:31
24011323-024A	MCE-82	NELAP		1.0	**1.8**	µg/L	1	02/02/2024 21:22	01/16/2024 3:31
24011323-025A	MCE-83	NELAP		1.0	**2.7**	µg/L	1	02/02/2024 21:26	01/16/2024 3:32
24011323-026A	MCE-84	NELAP		1.0	**< 1.0**	µg/L	1	02/02/2024 21:30	01/16/2024 3:32
24011323-027A	MCE-85	NELAP		1.0	**3.3**	µg/L	1	02/09/2024 15:40	01/16/2024 3:33
24011323-028A	MCE-86	NELAP		1.0	**1.1**	µg/L	1	02/06/2024 3:12	01/16/2024 3:33

Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.
Work Order: 24011323
Client Project: J044517.01
Report Date: 12-Feb-24

Carrier: Employee
Received By: MEK

Completed by: Mary E Kemp
On: 19-Jan-24

Reviewed by: Ellie Hopkins
On: 19-Jan-24

Pages to follow: Chain of custody 3 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	NA	
Type of thermal preservation?	None ☑	Ice ☐	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑

Any No responses must be detailed below or on the COC.

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - MaryKemp - 1/19/2024 11:42:57 AM

CHAIN OF CUSTODY

pg. 72 of 74 Work order # 24011323

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, LLC
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City / State / Zip	St. Louis, MO 63146
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E-Mail:	blohrum@teamues.com — **Fax:**

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FOR LAB USE ONLY

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Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

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Project Name/Number	Sample Collector's Name
J044517.01	Brad Lohrum

Results Requested
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

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24011323-001	MCE-59	1/16/24 3:21	1									X					X
002	MCE-60	3:22	1									X					X
003	61	〃	1									X					X
004	62	〃	1									X					X
005	63	3:23	1									X					X
006	64	3:24	1									X					X
007	65	〃	1									X					X
008	66	3:25	1									X					X
009	67	5:26	1									X					X
010	68	〃	1									X					X

Relinquished By	Date/Time	Received By	Date/Time
	1/18/24		1/18/24
R J Kelley	11/9/24 10:00	Mary Kemp	11/9/24 1000

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BottleOrder: 80481

CHAIN OF CUSTODY

pg. 73 of 74 Work order # 24011323

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, LLC		
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City / State / Zip	St. Louis, MO 63146		
Contact:	Brad Lohrum	**Phone:**	(314) 997-7440
E-Mail:	blohrum@teamues.com	**Fax:**	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

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Project Name/Number	Sample Collector's Name
J044517.01	Brad Lohrum

Results Requested

☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

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24011323-011	MCE-69	1/16/24 3:26	1									X					X
012	MCE-70	"	1									X					X
013	71	3:27	1									X					X
014	72	"	1									X					X
015	73	3:28	1									X					X
016	74	"	1									X					X
017	75	3:29	1									X					X
018	76	3:29	1									X					X
019	77	3:30	1									X					X
020	78	"	1									X					X

Relinquished By	Date/Time	Received By	Date/Time
	1/18/24		1/18/24
	1/18/24 10:00		11/9/24 1000

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BottleOrder: 80481

CHAIN OF CUSTODY

 Work order # 24011323

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, LLC
Address:	11816 Lackland Road
City / State / Zip	St. Louis, MO 63146
Contact:	Brad Lohrum
Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com
Fax:	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes

Client Comments:

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
J044517.01	Brad Lohrum

Results Requested
☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: DW - Lead E200.8
24011323-021	MCE-79	1/16/24 3:30	1									X					X
022	MCE-80	"	1									X					X
023	81	3:31	1									X					X
024	82	"	1									X					X
025	83	3:32	1									X					X
026	84	"	1									X					X
027	85	3:33	1									X					X
028	86	"	1									X					X
0			1									X					X
			1									X					X

Relinquished By	Date/Time	Received By	Date/Time
	1/18/24		1/18/24
	1/19/24 1010		1/19/24 1000

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

July 11, 2024

Brad Lohrum
Geotechnology, Inc.
11816 Lackland Road
St. Louis, MO 63146
TEL: (314) 997-7440
FAX: (314) 997-2067

Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: J044517.01 **WorkOrder:** 24062353

Dear Brad Lohrum:

TEKLAB, INC received 57 samples on 6/28/2024 3:50:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Patrick Riley

Patrick Riley
Project Manager
(618)344-1004 ex 44
patrickriley@teklabinc.com

Report Contents

Client: Geotechnology, Inc.
Work Order: 24062353
Client Project: J044517.01
Report Date: 11-Jul-24

This reporting package includes the following:

Client: Geotechnology, Inc. **Work Order:** 24062353

Client Project: J044517.01 **Report Date:** 11-Jul-24

Abbr Definition

Abbr	Definition
*	Analytes on report marked with an asterisk are not NELAP accredited
CCV	Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
CRQL	A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.
DF	Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.
DNI	Did not ignite
DUP	Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.
ICV	Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
IDPH	IL Dept. of Public Health
LCS	Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.
LCSD	Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MBLK	Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.
MDL	"The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."
MS	Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).
MSD	Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).
MW	Molecular weight
NC	Data is not acceptable for compliance purposes
ND	Not Detected at the Reporting Limit
NELAP	NELAP Accredited
PQL	Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.
RL	The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
RPD	Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).
SPK	The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.
Surr	Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.
TIC	Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"
TNTC	Too numerous to count (> 200 CFU)

Definitions

Client: Geotechnology, Inc.
Work Order: 24062353

Client Project: J044517.01
Report Date: 11-Jul-24

Qualifiers

- # - Unknown hydrocarbon
- B - Analyte detected in associated Method Blank
- C - RL shown is a Client Requested Quantitation Limit
- E - Value above quantitation range
- H - Holding times exceeded
- I - Associated internal standard was outside method criteria
- J - Analyte detected below quantitation limits
- M - Manual Integration used to determine area response
- ND - Not Detected at the Reporting Limit
- R - RPD outside accepted recovery limits
- S - Spike Recovery outside recovery limits
- T - TIC(Tentatively identified compound)
- X - Value exceeds Maximum Contaminant Level

Case Narrative

http://www.teklabinc.com/

Client: Geotechnology, Inc.
Client Project: J044517.01

Work Order: 24062353
Report Date: 11-Jul-24

Cooler Receipt Temp: NA °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Client: Geotechnology, Inc. **Work Order:** 24062353

Client Project: J044517.01 **Report Date:** 11-Jul-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: Geotechnology, Inc. **Work Order:** 24062353

Client Project: J044517.01 **Report Date:** 11-Jul-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24062353-001A	SMS-01-2	NELAP		1.0	4.6	µg/L	1	07/03/2024 17:08	06/26/2024 15:07
24062353-002A	SMS-02-2	NELAP		1.0	3.5	µg/L	1	07/03/2024 17:23	06/26/2024 15:08
24062353-003A	SMS-58-2	NELAP		1.0	7.5	µg/L	1	07/03/2024 17:26	06/26/2024 15:11
24062353-004A	SMS-59-2	NELAP		1.0	3.3	µg/L	1	07/03/2024 17:30	06/26/2024 15:12
24062353-005A	SMS-60-2	NELAP		1.0	8.7	µg/L	1	07/03/2024 17:34	06/26/2024 15:13
24062353-006A	SMS-61-2	NELAP		1.0	6.9	µg/L	1	07/03/2024 17:37	06/26/2024 15:14
24062353-007A	SMS-62-2	NELAP		1.0	7.4	µg/L	1	07/08/2024 22:34	06/26/2024 15:15
24062353-008A	SMS-74-2	NELAP		1.0	1.9	µg/L	1	07/03/2024 17:52	06/26/2024 15:18
24062353-009A	PKE-66-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 17:56	06/26/2024 15:52
24062353-010A	PKE-67-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 18:10	06/26/2024 15:52
24062353-011A	PKE-70-2	NELAP		1.0	2.2	µg/L	1	07/03/2024 18:14	06/26/2024 15:55
24062353-012A	RBE-08-2	NELAP		1.0	1.3	µg/L	1	07/03/2024 18:18	06/26/2024 16:06
24062353-013A	RBE-11-2	NELAP		1.0	1.6	µg/L	1	07/03/2024 18:21	06/26/2024 16:07
24062353-014A	FES-52-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 18:25	06/26/2024 16:16
24062353-015A	BRH-82	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 18:29	06/26/2024 16:33
24062353-016A	BRH-83	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 18:33	06/26/2024 16:36
24062353-017A	MCE-09-2	NELAP		1.0	1.3	µg/L	1	07/08/2024 22:45	06/26/2024 16:51
24062353-018A	MCE-87	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 18:58	06/26/2024 16:54
24062353-019A	MCE-88	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 19:02	06/26/2024 16:54
24062353-020A	RBH-30-2	NELAP		1.0	12.4	µg/L	1	07/03/2024 19:05	06/26/2024 17:17
24062353-021A	RBH-103	NELAP		1.0	1.9	µg/L	1	07/03/2024 19:09	06/26/2024 17:21
24062353-022A	RBH-104	NELAP		1.0	3.6	µg/L	1	07/03/2024 19:13	06/26/2024 17:21
24062353-023A	RBH-105	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 19:16	06/26/2024 17:22
24062353-024A	RBH-106	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 19:20	06/26/2024 17:22
24062353-025A	NHE-10-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 19:24	06/26/2024 17:44
24062353-026A	NHE-16-2	NELAP		1.0	3.7	µg/L	1	07/03/2024 19:28	06/26/2024 17:46
24062353-027A	CRE-70	NELAP		1.0	< 1.0	µg/L	1	07/05/2024 12:13	06/26/2024 18:01
24062353-028A	CRE-71	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 19:53	06/26/2024 18:03
24062353-029A	RAC-08-2	NELAP		1.0	13.2	µg/L	1	07/03/2024 19:57	06/26/2024 18:20
24062353-030A	SBE-02-2	NELAP		1.0	4.6	µg/L	1	07/03/2024 20:01	06/26/2024 18:35
24062353-031A	LSE-06-2	NELAP		1.0	2.1	µg/L	1	07/03/2024 20:04	06/26/2024 18:54
24062353-032A	JMS-11-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:08	06/26/2024 19:07
24062353-033A	EFS-01-2	NELAP		1.0	6.4	µg/L	1	07/03/2024 20:12	06/26/2024 19:19
24062353-034A	HHS-18-2	NELAP		1.0	2.7	µg/L	1	07/03/2024 20:15	06/26/2024 19:32
24062353-035A	OMS-08-2	NELAP		1.0	< 1.0	µg/L	1	07/05/2024 12:35	06/26/2024 19:55
24062353-036A	OMS-10-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:41	06/26/2024 19:56
24062353-037A	OMS-12-2	NELAP		1.0	1.1	µg/L	1	07/03/2024 20:45	06/26/2024 19:57
24062353-038A	OMS-17-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:48	06/26/2024 20:00
24062353-039A	OMS-20-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:52	06/26/2024 20:07
24062353-040A	OMS-39	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:56	06/26/2024 20:10
24062353-041A	OMS-40	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 20:59	06/26/2024 20:10
24062353-042A	OMS-23-2	NELAP		1.0	< 1.0	µg/L	1	07/05/2024 12:46	06/26/2024 20:11
24062353-043A	OMS-24-2	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 21:25	06/26/2024 20:11
24062353-044A	OMS-29-2	NELAP		1.0	5.6	µg/L	1	07/03/2024 21:29	06/26/2024 20:13
24062353-045A	EBE-35-3	NELAP		1.0	17.7	µg/L	1	07/03/2024 21:32	06/26/2024 20:39
24062353-046A	EBE-63	NELAP		1.0	< 1.0	µg/L	1	07/03/2024 21:36	06/26/2024 20:43
24062353-047A	BHS-83-2	NELAP		1.0	17.6	µg/L	1	07/08/2024 23:07	06/26/2024 21:10
24062353-048A	BHS-122-2	NELAP		1.0	4.3	µg/L	1	07/03/2024 21:51	06/26/2024 21:20

Client: Geotechnology, Inc.
Work Order: 24062353
Client Project: J044517.01
Report Date: 11-Jul-24
Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24062353-049A	BHS-125-2	NELAP		1.0	**8.8**	µg/L	1	07/03/2024 21:54	06/26/2024 21:20
24062353-050A	BHS-126-2	NELAP		1.0	**5.9**	µg/L	1	07/03/2024 22:09	06/26/2024 21:20
24062353-051A	BHS-130-2	NELAP		1.0	**< 1.0**	µg/L	1	07/03/2024 22:13	06/26/2024 21:26
24062353-052A	BHS-222	NELAP		1.0	**< 1.0**	µg/L	1	07/03/2024 22:16	06/26/2024 21:30
24062353-053A	BHS-223	NELAP		1.0	**1.1**	µg/L	1	07/03/2024 22:20	06/26/2024 21:30
24062353-054A	BHS-224	NELAP		1.0	**< 1.0**	µg/L	1	07/03/2024 22:24	06/26/2024 21:30
24062353-055A	BHS-225	NELAP		1.0	**1.3**	µg/L	1	07/03/2024 22:27	06/26/2024 21:30
24062353-056A	BHS-226	NELAP		1.0	**3.0**	µg/L	1	07/03/2024 22:31	06/26/2024 21:15
24062353-057A	BHS-227	NELAP		1.0	**2.8**	µg/L	1	07/03/2024 22:35	06/26/2024 21:15

Receiving Check List

http://www.teklabinc.com/

Client: Geotechnology, Inc.
Work Order: 24062353
Client Project: J044517.01
Report Date: 11-Jul-24

Carrier: Craig McKinney
Received By: NR

Completed by: Paul Schultz
On: 28-Jun-24

Reviewed by: Ellie Hopkins
On: 28-Jun-24

Pages to follow: Chain of custody 6 Extra pages included 0

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	NA	
Type of thermal preservation?	None ☑	Ice ☐	Blue Ice ☐	Dry Ice	☐	
Chain of custody present?	Yes ☑	No ☐				
Chain of custody signed when relinquished and received?	Yes ☑	No ☐				
Chain of custody agrees with sample labels?	Yes ☑	No ☐				
Samples in proper container/bottle?	Yes ☑	No ☐				
Sample containers intact?	Yes ☑	No ☐				
Sufficient sample volume for indicated test?	Yes ☑	No ☐				
All samples received within holding time?	Yes ☑	No ☐				
Reported field parameters measured:	Field ☐	Lab ☐	NA ☑			
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐				

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?	Yes ☐	No ☐	No VOA vials ☑	
Water - TOX containers have zero headspace?	Yes ☐	No ☐	No TOX containers ☑	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	NA ☐	
NPDES/CWA TCN interferences checked/treated in the field?	Yes ☐	No ☐	NA ☑	

Any No responses must be detailed below or on the COC.

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - pschultz - 6/28/2024 4:49:24 PM

CHAIN OF CUSTODY

pg. 2 of 6 Work order # 2406a353

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Geotechnology, LLC
Address:	11816 Lackland Road
City / State / Zip	St. Louis, MO 63146
Contact:	Brad Lohrum
Phone:	(314) 997-7440
E-Mail:	blohrum@teamues.com
Fax:	

Samples on: ☒ ICE ☒ BLUE ICE ☒ NO ICE _____ °C LTG# _____

Preserved in: ☒ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes

Client Comments:

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? ☐ Yes ☒ No

Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section. ☐ Yes ☒ No

Project Name/Number	Sample Collector's Name
J044517.01	Brad Lohrum

Results Requested
☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ____ ☐ 3 Day (50% Surcharge)

Billing Instructions

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	OTHER	MATRIX: Aqueous	Drinking Water	Soil	Sludge	Special Waste	Groundwater	INDICATE ANALYSIS REQUESTED: DW - Lead E200.8
2406a353-011	PKE-70-2	6/26/24 3:55	1									X					X
-012	RBE-68-2	4:06	1									X					X
-013	RBE-11-2	4:07	1									X					X
-014	FES-52-2	4:16	1									X					X
-015	BRH-82	4:33	1									X					X
-016	BRH-83	4:36	1									X					X
-017	MCE-09-2	4:51	1									X					X
-018	MCE-87	4:54	1									X					X
-019	MCE-88	"	1									X					X
-020	RBH-30-2	" 5:17	1									X					X

Relinquished By	Date/Time	Received By	Date/Time
Brad Lohrum	6/27/24 17:30		6/28/24 1400
	6/28/24 1350	Nick Reed	6/28/24 1550

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.

BottleOrder: 80481

APPENDIX D

LIMITATIONS OF REPORT

ENVIRONMENTAL SAMPLING
LIMITATIONS OF REPORT

1. The Report has been prepared on behalf of and for the exclusive use of the addressee, solely for use in documenting specific sample results. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without the prior written consent of UES.

2. The sampling was performed in accordance with generally accepted practices of other consultants undertaking similar projects at the same time and in the same geographical area, and UES endeavored to observe that degree of care and skill ordinarily exercised by other consultants under similar circumstances and conditions. The findings and conclusions stated herein must be considered not as scientific certainties, but rather as professional opinions concerning the significance of the limited data gathered during the course of the project. UES does not and cannot represent that the site contains no hazardous waste or material, or other latent condition beyond that observed by UES.

3. In the event that information is developed relative to environmental or hazardous waste or material issues at the site and not contained in this report, such information shall be brought to UES' attention. UES will evaluate such information and, based on this evaluation, may modify the conclusions stated in this Report.

4. The conclusions and recommendations contained in this Report are based in part upon the data obtained from a limited number of water samples. The identified presence of contaminated water is limited to the extent that they could be identified by instrumentation and sampling and testing. There is a potential for contaminated water above the indicated concentrations to occur elsewhere on the site. The nature and extent of variations between these explorations may not become evident until further exploration. If variations or other latent conditions then appear evident, and/or if changes are made in regulations, it will be necessary to reevaluate the conclusions and recommendations of this report.

5. If quantitative laboratory testing was performed as part of the assessment by an outside laboratory, UES has relied upon the data provided, and has not conducted an independent evaluation of the reliability to these data.

6. Chemical analyses have been performed for specific parameters during the course of this sampling as described in the text. Do not assume that a given analyte is not present at the site simply because it was not present at the test locations. The analyte may exist on the site where tests were not performed. In addition, it should be noted that additional chemical constituents not tested for during the sampling could be present in water at the site.